1 ALL JOINTS WITHIN THE LOWERED SECTION OF THE WATERMAIN SHALL BE RESTRAINED OR SHALL BE SOLID PIPE. THE ABOVE DISTANCES REFLECT THE REQUIRED RESTRAINT DISTANCE ON THE NORMALLY ELEVATED WATERMAIN EITHER SIDE OF THE 45° FITTING OF THE VERTICAL OFFSET (OR LOWERING)

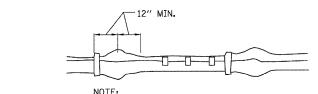
² MINIMUM OF 8 FT SOLID PIPE IS REQUIRED ON BOTH SIDES OF THE FITTING ON THE RUN SIDE. DISTANCE INDICATES THE LENGTH OF RESTRAINT ON THE BRANCH SIDE OR THE SIDE PERPENDICULAR TO THE TEE RUN WATERMAIN.

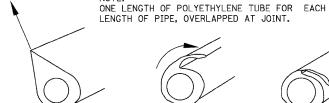
3 INDICATES THE DISTANCE FROM THE LARGER END OF THE

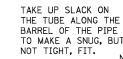
NOTES:

- 1) ALL NUTS AND BOLTS SHALL BE STAINLESS STEEL.
- THE ENTIRE RESTRAINT SYSTEM FROM THE FITTING TO THE MINIMUM RESTRAINT DISTANCE MUST BE INSPECTED BY THE CITY OF DEKALB OR IT'S REPRESENTATIVE PRIOR TO BACKFILLING.

WATERMAIN RESTRAINT LENGTH TABLE









FOLD EXCESS POLY-ETHYLENE BACK OVER THE TOP OF THE PIPE.

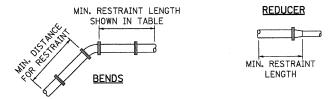


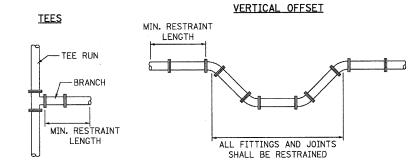
SECURE THE FOLD AT SEVERAL LOCATIONS ALONG THE PIPE BARREL (APPROX.

REPAIR ALL SMALL RIPS, TEARS OR OTHER TUBE DAMAGE WITH ADHESIVE TAPE.

POLYETHYLENE ENCASEMENT

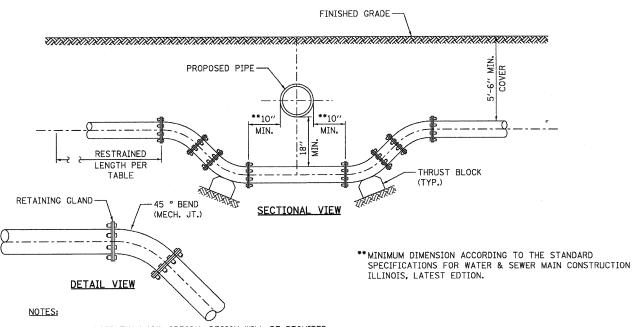
N.T.S.





THE EXACT LENGTHS FOR RESTRAINTS ARE SHOWN IN THE WATERMAIN RESTRAINT LENGTH TABLE SHOWN IN THESE PLANS.

WATERMAIN RESTRAINT DETAIL



1) FOR SIZES LARGER THAN 16", SPECIAL DESIGN WILL BE REQUIRED.

SCALE:

2) THE MECHANICAL JOINTS SHALL BE RESTRAINED WITH THE MEGALUG SERIES 1100 AS MANUFACTURED EBBA IRON INC. OR APPROVED EQUAL. ALSO, THE BELL AND SPIGOT JOINTS SHALL BE RESTRAINED ON EITHER SIDE OF THE MECHANICAL JOINTS BY EBBA IRON 1700 SERIES RESTRAINT OR APPROVED EQUAL AND THE RESTRAINT DISTANCE SHALL BE IN ACCORDANCE WITH THE WATERMAIN RESTRAINT LENGHT TABLE AND WATERMAIN RESTRAINT DETAIL SHOWN IN

WATERMAIN ADJUSTMENT DETAIL

BURKE KELSEY ASSOCIATES LTD. Main Street, Suite 201 s, Illinois 60174	USER NAME = nparris	DESIGNED	-	DPB	REVISED	_
		DRAWN	-	NDP	REVISED	-
	PLOT SCALE =	CHECKED	-	SBP	REVISED	-
	PLOT DATE = 7/6/2011	DATE	-	7/8/11	REVISED	-

STAT	E OF	ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

							F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
										5355	04-00167-00-BR	DEKALB	88	46
										CONTRACT	NO.874	191		
	SHEET	NO. 46	OF	88	SHEETS	STA.		TO STA.		FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT				